Official copies of these procedures are maintained at this website.

Before using a printed copy, verify that it is the most current version by checking the document issue date on this website. Signed copies of these official procedures are maintained at the Training Office.

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

11.4.3.d STAR Power Supply Tap Change Check Off List

| F | | | | 1 | | | |
|------------------------|---|-----|---------|-----------------|--|--|--|
| | C-A-OPM Procedures in which this Attachment is used. | | | | | | |
| | 11.4.3 | | | | | | |
| - | | | | | | | |
| - | | | | | | | |
| L | | | | | | | |
| Hand Processed Changes | | | | | | | |
| HPC No. | <u>Date</u> | Pag | ge Nos. | <u>Initials</u> | | | |
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| | | | | | | | |
| | Approved:Signature On File Collider-Accelerator Department Chairman | | | | | | |

P. Rosas

STAR Power Supply Tap Change Check Off List

Warning:

The Main Magnet Power Supply and PTT-EAST & WEST Power Supplies are equipped with NO-LOAD TAP CHANGER SWITCHES. Taps can only be changed when power is removed from the transformers.

- Tap changers are available for the Main Magnet Power Supply, PTT-EAST and PTT-WEST Power Supplies only. The Space Trim Power Supplies do not have Tap Changers.
 The STAR Power Supplies shall be shut down in accordance with the "STAR Power Supply SHUT-DOWN Check Off List" before taps may be changed. All completed check off lists shall be signed and kept in a binder in the STAR Control room.
- CAS WATCH Operator shall remove the 7X key from the 'B' Transfer Lock and retain the key until all tap changing is completed. []
 Unlock PS Transformer Yard Gate using UEB-19 key. []
 Unlock tap switch access door using UEB-19 key for the LEAD 2500KVA transformer and rotate the tap switch to the required tap position. Two full turns are required for each tap position. Close the tap switch access door and lock with the UEB-19 lock. []
 Unlock tap switch access door using UEB-19 key for the LAG 2500KVA transformer and rotate the tap switch to the required tap position. Two full turns are required for each tap position. Closed the tap

switch access door and lock with the UEB-19 lock.

Warning:

Both Main Magnet Power Supply Transformers must be in the same tap position. Excessive output ripple will be produced and may blow filter bank fuses.

• This completes the Main Magnet Power Supply portion of this check list, if no additional taps need to be changed then skip to section 6 of this check list.

| Completed By: | Tap Setting: | Date: |
|---------------|--------------|-------|

[]

| 4. PTT-EAST Power S | Supply: | | | | | | |
|---|---|--------------------------|--|--|--|--|--|
| 'B' Transfer Lock and r Unlock PS Transformer Unlock the tap switch a transformer using the U Rotate Both tap switcher full turns are required for | es to the same required tap position. Two | [] | | | | | |
| Warning: Both PTT-EAST Power Supply Transformers must be in the same tap position. Excessive output ripple will be produced and may blow filter bank fuses. | | | | | | | |
| - | C-EAST Power Supply portion of this check lied to be changed then skip to section 6 of this | | | | | | |
| | | _ | | | | | |
| Completed By: | Tap Setting: | Date: | | | | | |
| PTT-WEST Power CAS WATCH Operator 'B' Transfer Lock and Unlock PS Transformer | Supply: r shall remove the 7X key from the retain the key until all tap changing is comple Yard Gate using UEB-19 key. | leted. [] | | | | | |
| PTT-WEST Power CAS WATCH Operator 'B' Transfer Lock and Unlock PS Transformer Unlock the tap switch a | Supply: r shall remove the 7X key from the retain the key until all tap changing is comple Yard Gate using UEB-19 key. ccess door for the PTT-WEST Dual 140 KV | leted. [] | | | | | |
| CAS WATCH Operator 'B' Transfer Lock and Unlock PS Transformer Unlock the tap switch a transformer using the U Rotate both tap switche | Supply: r shall remove the 7X key from the retain the key until all tap changing is comple Yard Gate using UEB-19 key. ccess door for the PTT-WEST Dual 140 KVA EB-19 key. s to the same required tap position. Two | leted. [] | | | | | |
| CAS WATCH Operator 'B' Transfer Lock and Unlock PS Transformer Unlock the tap switch a transformer using the U Rotate both tap switche full turns are required for | Supply: r shall remove the 7X key from the retain the key until all tap changing is comple Yard Gate using UEB-19 key. ccess door for the PTT-WEST Dual 140 KVA EB-19 key. s to the same required tap position. Two or each tap position. | leted. [] [] A [] | | | | | |
| CAS WATCH Operator 'B' Transfer Lock and Unlock PS Transformer Unlock the tap switch a transformer using the U Rotate both tap switche full turns are required for Closed the tap switch defended | Supply: r shall remove the 7X key from the retain the key until all tap changing is comple Yard Gate using UEB-19 key. ccess door for the PTT-WEST Dual 140 KVA EB-19 key. s to the same required tap position. Two | leted. [] [] A [] [] | | | | | |

| • | This completes the PTT-WEST Power Supply portion of this check list, if no additional taps need to be changed then skip to section 6 of this check list. | | | | |
|--|--|-----|--|--|--|
| 6. | Perform a sweep of the power supply transformer yard to verify that all personnel have left the transformer area. | [] | | | |
| 7. | Lock the power supply transformer yard gate with UEB-19 lock. | [] | | | |
| 8. | CAS WATCH Operator shall return the 7X key to the 'B' Transfer Lock. | [] | | | |
| 9. | Record on the Power Supply logbook, the Tap Change completion | [] | | | |
| This completes the Power Supply Tap Change Check Off List portion of this procedure. | | | | | |
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| NOTES: | | | | | |
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| Co | empleted By: Date: | | | | |
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